SAFETY QUESTION REVIEW (SQR)

FOR BUILDING XXX

SQR No.: ***BXXX-###—Yr***

Title

Date

_____ This issue does not constitute a Safety Question (all answers are no). The cognizant facility manager approves continued operation.

_____ This issue does constitute a Safety Question (one or more yes answers). The original authorizing office approves continued operation.

Prepared by:

	Name Safety Analyst	Date
Reviewed by	_____	
	Name Safety Analysis Technical Leader	Date
Reviewed by	_____	
	Name ES&H Team ## Leader	Date

Shaded areas optional if there is not a Safety Question

Operation approved by:

_____

Name Date

Facility Manager or Original Authorizing Office

Part I Introduction

This Safety Question Review (SQR) is prepared because:

☐ A change of inventory or operations is proposed above that currently analyzed or bounded by the Safety Basis Envelop (SBE) document.

☐ A potential safety hazard is noted but not identified in the SBE document.

☐ Previous safety analyses were discovered to be inadequate.

☐ See Attachment for details of analysis and supporting documentation.

☐ No attachments.

1. Describe the information being evaluated and the operation that it affects.

2. References used to perform the safety evaluation:

(Add or remove references as appropriate. Remove this instruction from SQR.)

SARA 00-26

LLNL EIS/EIR

FSPs, OSPs *optional*

Existing Safety Analysis

Part II Impact on the Existing Operation

1. List existing controls and equipment that are affected by the new information.

2. Describe how the new information changes understanding of the ways in which the existing controls and equipment might fail.

3. **Identify any previously analyzed or considered accidents that are affected by the changed failure modes.**

4. **Describe how these accidents are affected, such as new means of initiation, changes in probability, or changes in consequence.**

5. **Is the probability of an accident increased by:**

   - Removal of a barrier or barriers committed to in the safety basis document?

   or

   - New information on material(s) or safety SSCs that result in expected probability of an accident moving to a higher probability category. Use probability categories in safety basis document if they exist – otherwise use probability categories in Document 3.1, "Safety Analysis Program," in the *ES&H Manual*, Section 2.1.2.

Part III Potential for a New Accident

1. **Is a new type of accident possible (other than previously analyzed)?**

2. **Provide an analysis of the new accident.** Use the same level of analysis that is in the current safety basis document. If the hazard category of the facility is or could be changed to a higher level by the information, consult your ES&H Team on the appropriate level of analysis.

Part IV Impact on the Margin of Safety (if applicable)

Identify changes to any safety limits that are defined or assumed in the existing safety analysis pertinent changes resulting from the new analysis.

- Does new information indicate that explicitly defined safety limits will require changes? If so, explain.
- Does new information indicated that safety limits invoked by applicable standards could be exceeded? If so explain.
- Does new information indicate that the actual failure of a control in the SAR (e.g. SSC) has been adversely affected?
- If question 3 is answered yes, describe the decrease in the Margin of Safety (i.e. the margin between the safety basis limit and actual failure of the SSC.)
- Identify any new safety limits needed to define margin of in response to the new information

Part V Summary and Conclusions

Summary Questions		Yes	No
Is the likelihood of a safety system malfunction higher than previously expected?	(Part II Item 2)	☐	☐
Is the likelihood or consequences of a previously analyzed accident increased?	(Part II Item 4)	☐	☐
Is there potential for a new type of accident?	(Part III)	☐	☐
Is the margin of safety (if applicable) reduced?	(Part IV Item 2)	☐	☐
Are any new safety limits needed?	(Part IV Item 3)	☐	☐

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☐ This issue does constitute a Safety Question (one or more yes answers). The original authorizing office approves continued operation.